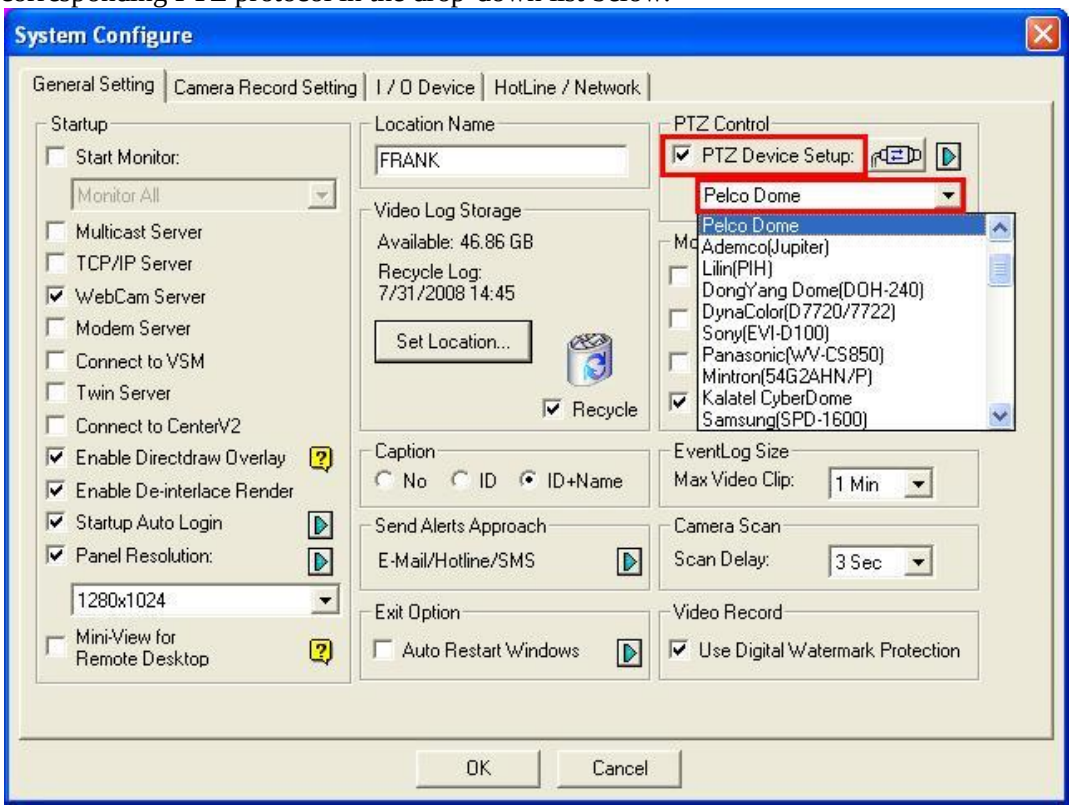
2.2 PTZ Camera Setup

2.2.1 Analog PTZ Camera

1. Analog PTZ setup requires RS485 +/- connection from the PTZ camera to any GV-COM Box, GV-Net Card, or GV-Net I/O Card. For GV-DVR system, GV-Net I/O Card can be found in the back of the unit.
2. From GV-COM Box, GV-Net Card, or GV-Net I/O Card, it is necessary to connect a RJ45 to RS232 cable or a RJ45 to USB cable to establish a connection to the DVR.
3. If RJ45 to USB cable is used, check under Device Manager for the correct COM port created. To access Device Manager, right-click on My Computer, select Manage, then select Device Manager. If RJ45 to RS232 cable is used, COM 1 is the default COM port.

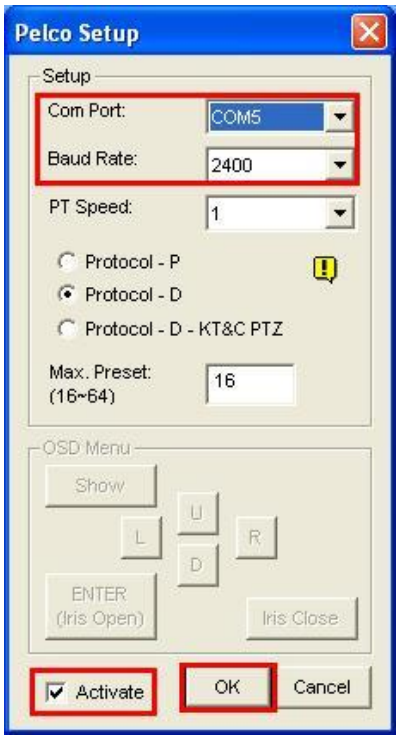
Add PTZ Device in Multicam

1. In Multicam, click on the "**Configure**" icon.
2. Select "**General Setting**" -> "**System Configure**".
3. Under System Configure, place a checkmark by "**PTZ Device Setup**". Then select corresponding PTZ protocol in the drop-down list below.



- *To verify PTZ protocol, refer to PTZ user manual, technical document, or check with PTZ manufacturer directly. You may also find tested PTZ models in the next section.*

4. Click on "**PTZ Setup**" button.



5. Select "**COM port**" for which the PTZ camera is connected through (refer to 2.7.1 step 3), and then select "**Baud Rate**" that matches the PTZ baud rate. Check on "**Activate**" then "**OK**" to save the settings.

   - *To verify PTZ baud rate, refer to PTZ user manual for options. It is typically setup via dipswitches on the PTZ camera.*

6. Repeat steps 3 to 5 for each additional PTZ cameras.

   - *For multiple PTZ cameras connected via the same COM port, it is necessary to assign a different ID (address) to each PTZ camera. In general, ID for each camera can be set via dipswitches on the PTZ camera.*

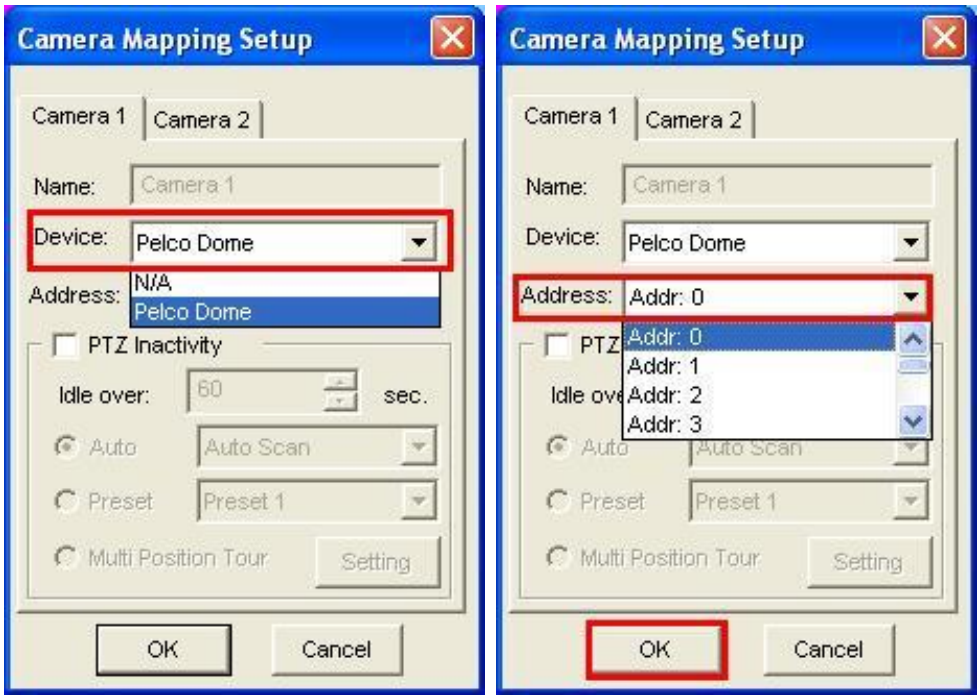
7. At this stage, a PTZ button should appear on the right side of Multicam. Click on the button to bring up PTZ control panel to control PTZ via Multicam.

   - *If PTZ camera cannot be controlled, verify your hardware connection first. Then, verify that the protocol, COM port, and baud rate settings for your PTZ cameras are correct.*

PTZ Camera Mapping

For DVR systems with more than one PTZ cameras, PTZ camera mapping will allocate each PTZ to its respective channels base on the address of the PTZ camera.

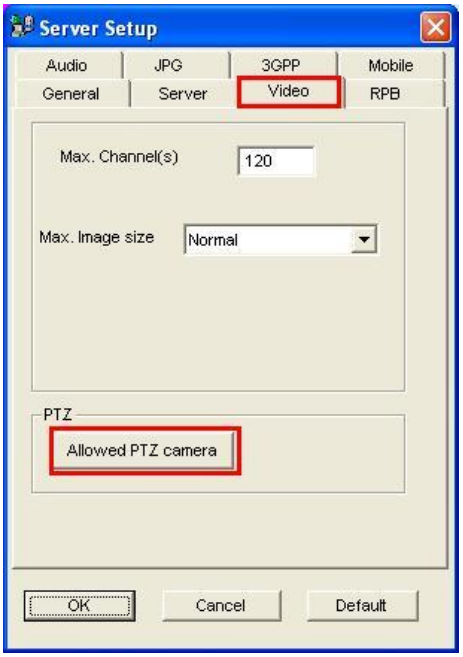
8. In Multicam, click on the "**Configure**" icon.
9. Select "**Accessories**" -> "**Camera Mapping PTZ Dome**".

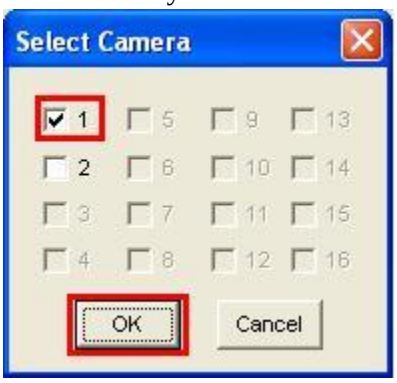


10. Under Camera Mapping Setup window, select the camera tab with PTZ camera, then select the "**Device**" and then the "**Address**" for the PTZ camera from the drop-down list.
11. Repeat step 10 for each of the PTZ cameras.
12. Click "**OK**".

Enable PTZ for Webcam

13. In Multicam, click on the "**Network**" icon.
14. Select "**Webcam Server**" to bring up Server Setup window.
15. Select "**Video**" tab, then click on "**Allowed PTZ camera**".
16. Check on each PTZ camera to be allowed to control remotely.





17. Click "**OK**".
18. Click "**OK**" again to exit Server Setup.

✓ For detailed instruction, refer to p.13 of v8.3 User Manual

2.2.2 Compatible PTZ Camera/Protocol List

PTZ Protocol and Model
Ademco (Jupiter)
Bosch (TC700 / 8560)
CBC GANZ (ZC-S120 Series)
Chiper (CPT-V9KRV)
COP(15-CD53W) Pelco D
Direct Perception (PTU Series)
D-max Dome
DongYang Dome (DOH-240)
DynaColor (D-7720 / 7722)
DynaColor Dome
ELBEX (Matrix / 1000)
Elmo PTC-200C
Elmo PTC-400C
Elmo PTC-1000
EverFocus (EPTZ 1000 / 500)
Eyeview T-Power (T2-SA27)
GKB (SPD-221)
HiSharp Pelco D
HiSharp Pelco P
JEC Dome
JVC (TK-S576B / S655 / C686E)
Kalatel CyberDome
Kampro Technology (K-ZC23)
KenKo (DMP23-H1)
LG (LPT-OS553HQ)
Lilin PIH
Lilin PIH-7625
Lilin PIH-820
MESSOA SDS600 Series

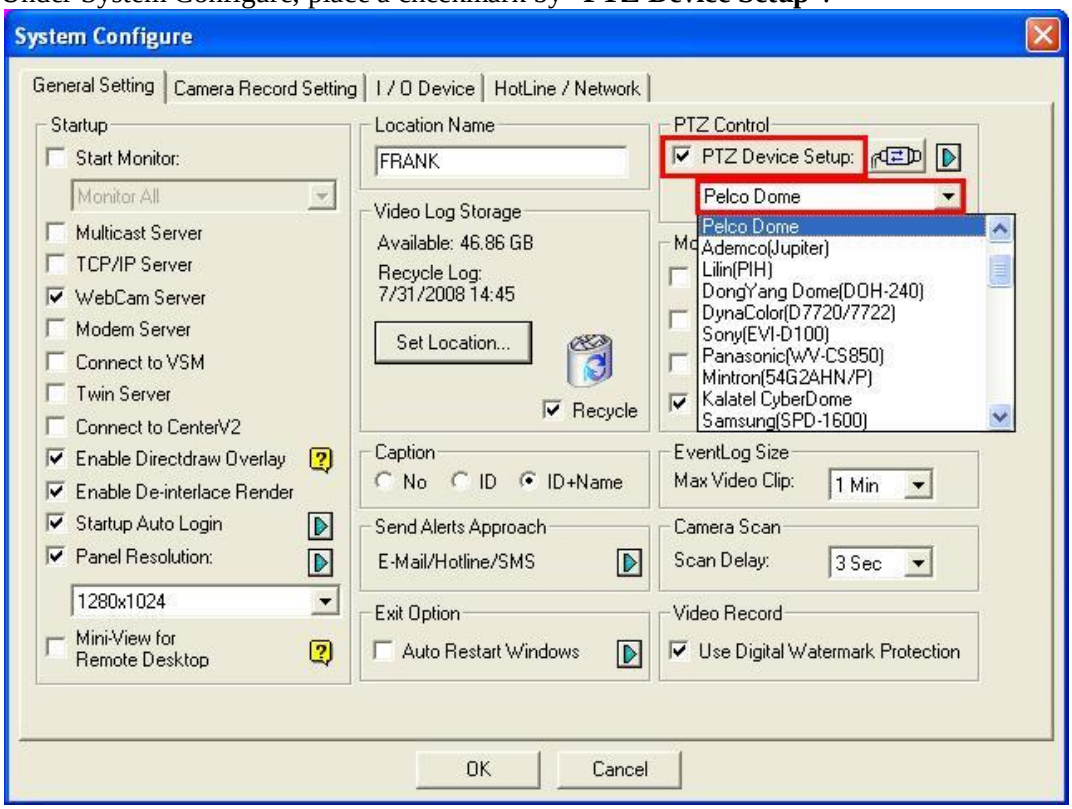
MESSOA D-700 Series
Minking Dome
Mintron (54G2AHN/P)
NanWang (NVD 2300PNT)
NanWang V4.1 (NVD 2300PNT)
Panasonic WV-CS850
Panasonic WV-CW960
Pelco Dome
Pelco (Spectra III)
PelcoSpetra Mini Dome (SD4-WO)
Pishion 22X
PTZ in I/O
RX214D
SAE (DR-E588)
Samsung (SCC-641 / 643)
Samsung SPD-1600
Samsung SPD-3300
Sensormatic (Ultra IV)
Sony (EVI-D100)
StorVision PTZ
TOA (CC551)
VCC3
VCC4/ VCC5i
VIDO.AT Dome
YAAN Dome
360 Vision (ViD-18COP04) Pelco P

- ✓ *For PTZ cameras not in the list, it is highly possible that GeoVision software may still be able to perform basic control of the camera via common protocols such as Pelco P and D. However, since Pelco P and D protocols are designed for Pelco-made PTZ cameras, OEM brand PTZ cameras may observe loss of advanced features (such as OSD menu and auto-touring etc). It is because OEM version PTZ cameras alter part of the original Pelco P and D protocols in order to distinguish their PTZ cameras from the rest, even though they still retain the name of Pelco P and Pelco D.*

2.2.3 IP PTZ Camera

In general, IP PTZ Cameras (or analog PTZ cameras connected via GV-Video Server or GV-Compact DVR) have the same setup procedure as IP cameras. (Refer to 2.1.2 IP Camera Setup). Then, after the IP PTZ cameras are connected to Multicam, follow the steps below:

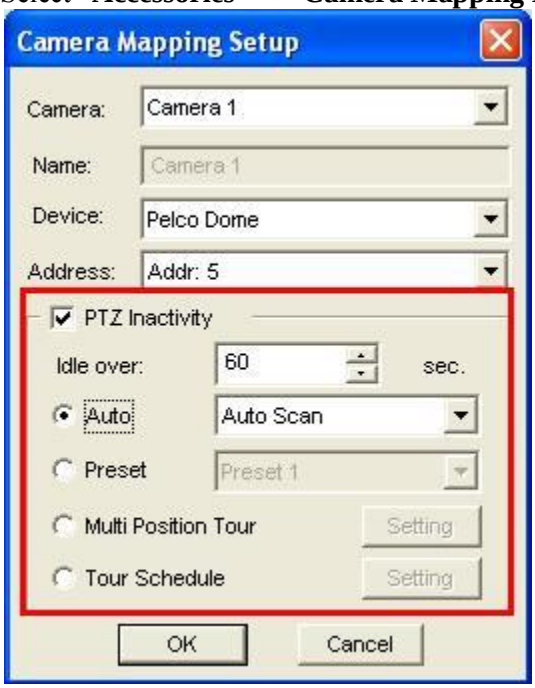
1. In Multicam, click on the "**Configure**" icon.
2. Select "**General Setting**" -> "**System Configure**".
3. Under System Configure, place a checkmark by "**PTZ Device Setup**".



4. For IP PTZ Cameras:
    a. In the drop-down list below, select the IP PTZ Camera model. (Please note the camera model will only appear in the list only if it is in our supported IP Camera List as shown in 2.1.3)
5. For analog PTZ cameras connected via GV-Video Server or GV-Compact DVR:
    a. In the drop-down list below, select the PTZ camera channel from GV-Video Server or GV-Compact DVR. (For example, if PTZ camera is on channel 1 of GV-Video Server, select VS01 in the list)
6. Click "**OK**".

2.2.4 PTZ Idle Protection

1. In Multicam, click on the "**Configure**" icon.
2. Select "**Accessories**" -> "**Camera Mapping PTZ Dome**".



3. Select the Camera to apply idle protection.
4. Check "**PTZ Inactivity**".
5. Select the time period before idle protection activates.
6. Select the desired function when idle protection starts by checking "**Auto**", "**Preset**", "**Multi Position Tour**", or "**Tour Schedule**".
    a. "**Auto**" allows the PTZ camera to Auto Scan, Frame Scan, or Random Scan.
    b. "**Preset**" will move the PTZ camera to a preset position.
    c. "**Multi Position Tour**" allows the PTZ camera to dwell over a series of presets with the ability to set dwell time for each location.
    d. "**Tour Schedule**" allows the PTZ camera to perform functions from a, b, and c by an hourly schedule.
7. Click "**OK**".
8. Click "**OK**" again to finish setup.

✓ For detailed instruction, refer to p.58 of v8.3 User Manual